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(56) Documents Cited

GB 2335523 A GB 2305808 A GB 2296156 A
GB 2287152 A JP 110041669 A US 5893037 A
US 5441047 A

(58) Field of Search

UK CL (Edition Q) H4F FAAE
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ONLINE: WPI, JAPIO, EPODOC

(54) Abstract Title

Portable audio/video surveillance device

(57) A portable surveillance device is described wherein a cellular telephone is attached to a camera, said phone being capable of transmitting audio and video data to either a monitoring station or a user when activated by a trigger signal. The device can be triggered either remotely by dialling said telephone and inputting a security code, or, by using a separate trigger device such as an infra-red sensor or an electrical differential sensor, which may be connected directly to said device.

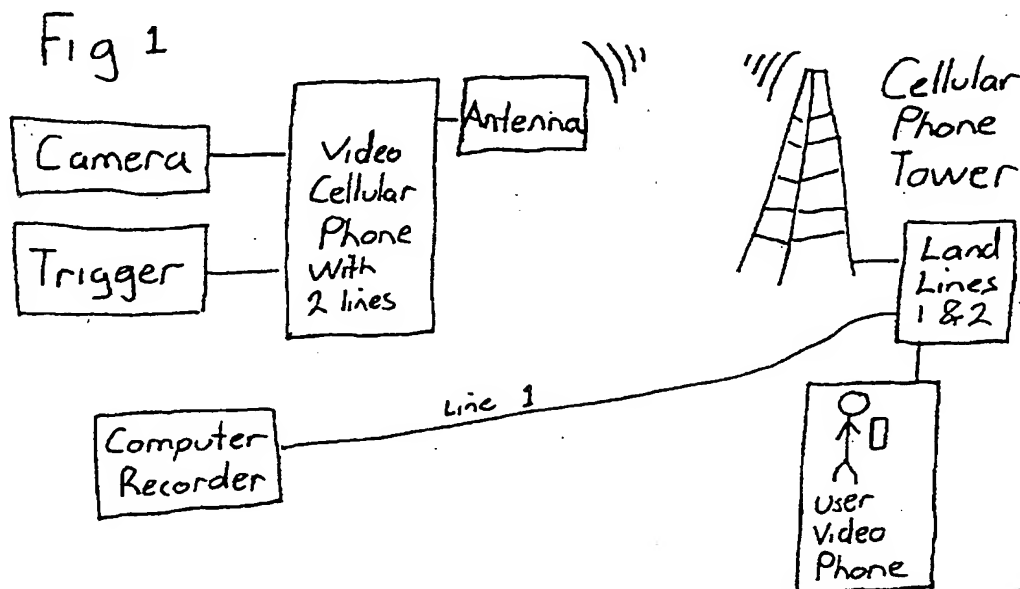


Fig 1

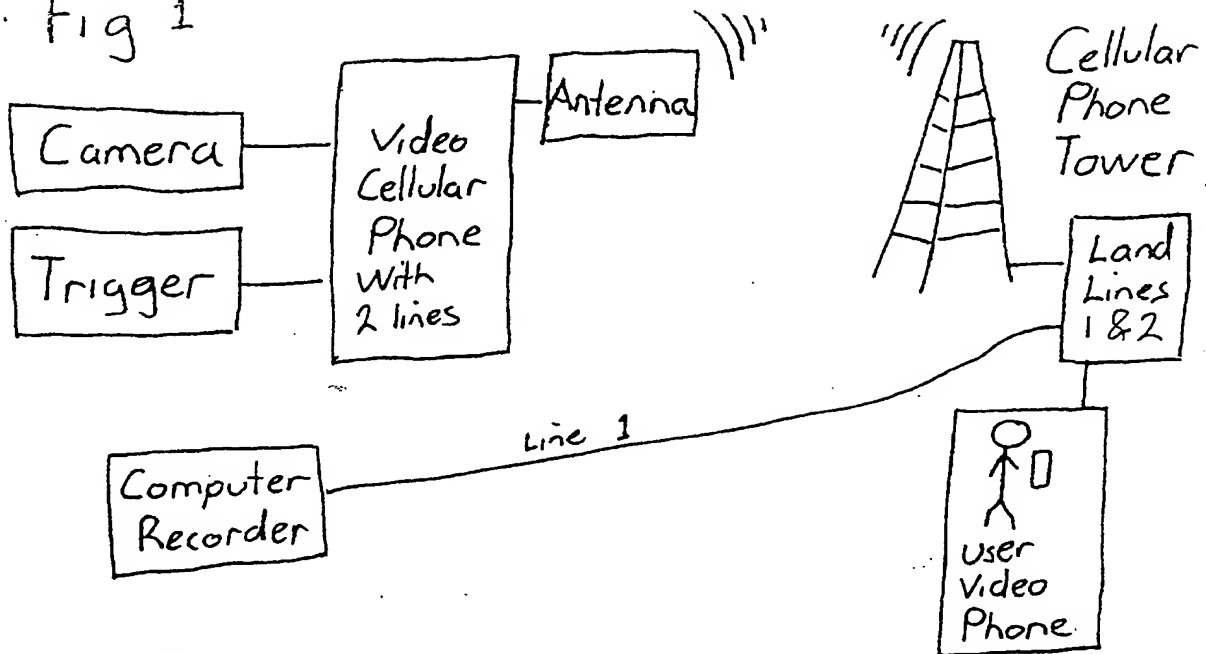


Fig 2

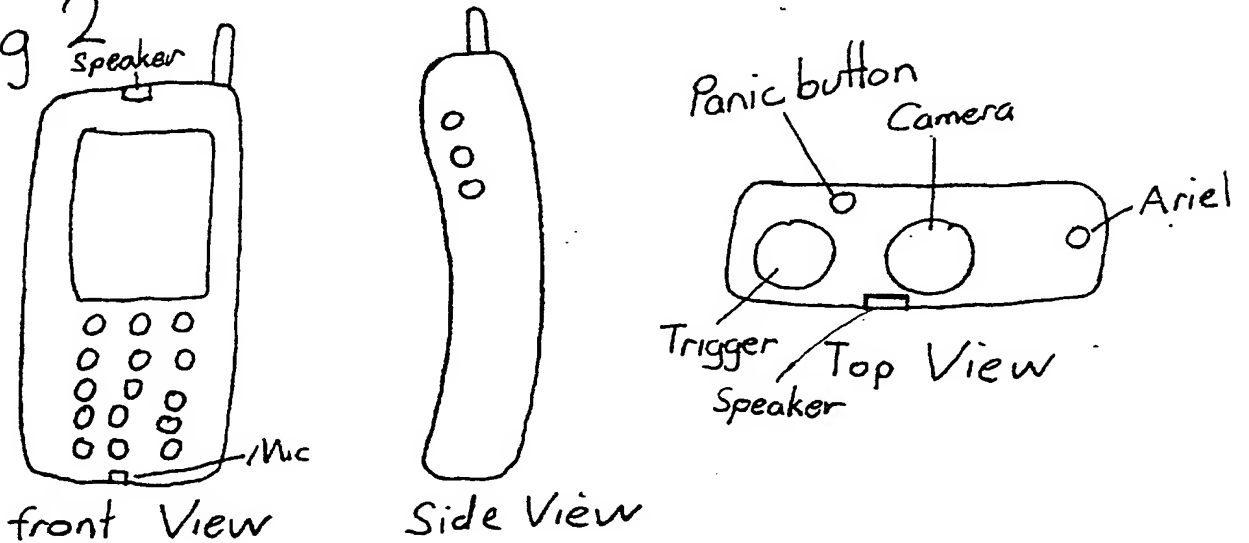
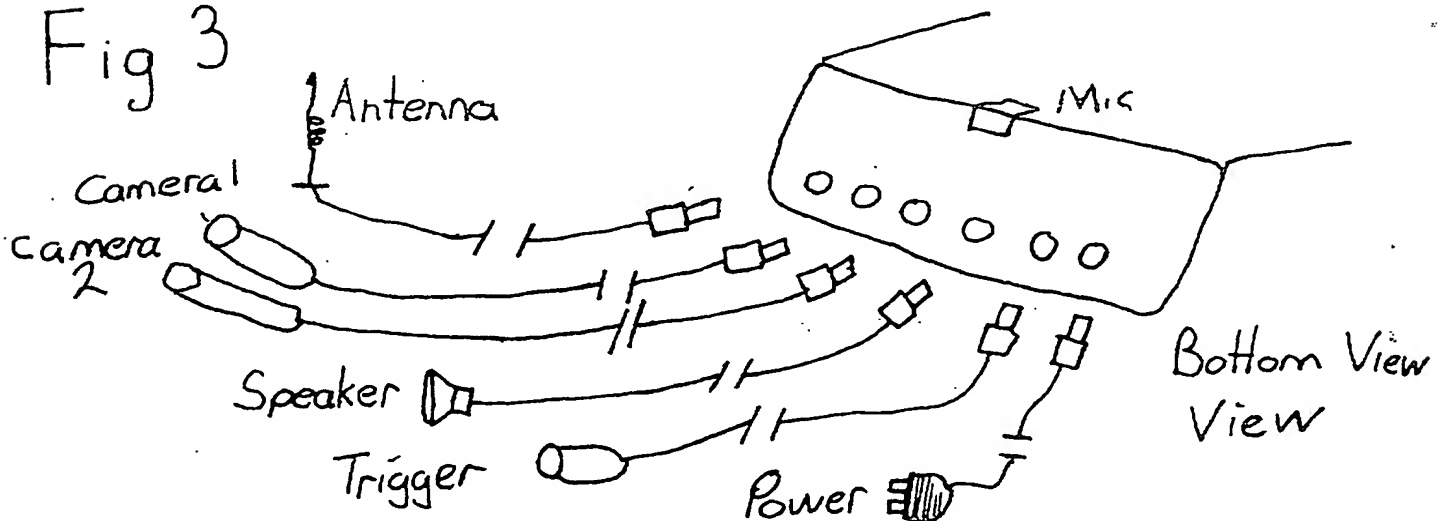


Fig 3



DESCRIPTION

REMOTE SURVEILLANCE ALARM DEVICE

This invention relates to a compact , portable , self contained , remote security surveillance / alarm device that when activated records and sends video & audio data in real time to a central computer/ monitor and the user , using audio/video cellular phone technology.

This surveillance device solves the problems encountered convicting perpetrators due to evidence being destroyed on site by perpetrators , or of defeating the surveillance system by cutting wires .

The device would be similar to an audio/video cellular phone with differences as follows :- when set as well as storing audio/video data in its own memory it would automatically transmit audio/video signals upon being triggered by the additional incorporated internal or external trigger to the designated destination points for real time viewing as well as recording . This would let you know your device has been triggered and if you have a video phone you could remotely view what's going on as it's happening . An additional advantage is that you could converse with a perpetrator or if you are unavailable , the computer monitor could be set to send a pre-recorded message. The device could be triggered remotely from anywhere at any time by dialling its number along with a changeable security code from another video phone , thus the user is reassured all is well .

The trigger can be one of , or a combination of , many such devices available , for example : infra-red , space , thermal or electrical differential . The device would have a manual "panic button" trigger as well for use in a situation such as a mugging and also be able to be triggered remotely by phoning the device . Unauthorised remote triggering and viewing would be prevented by a security code .

The device would also have external plugs/jacks so one could plug in an external camera/cameras , speaker , trigger/triggers , antenna and external power for extended use.

The size and shape of the device would be small enough to easily be carried in a pocket so that the user could place it anywhere at anytime , orienting the trigger and camera part in the desired direction .

An example of the invention will now be described with reference to the accompanying drawings .

Figure 1 Shows a flow diagram of how the device works .

The device would be similar to a cellular phone with audio/video functions . When set it would automatically store and transmit audio/video data signals via cellular telephone lines upon being triggered by the internal/external trigger to the designated destination point/points for real time viewing as well as recording .

Figure 2 Shows an example of the device incorporated into a video cellular phone . when triggered the phone would automatically dial into the designated telephone line/lines .

Figure 3 Shows an example using plug-in accessories for protecting a car or a yacht . The device could be situated in a completely hidden place with wires from the above mentioned externals being able to be plugged in . The camera could be incorporated in the dash disguised as a warning light , the trigger the same , the antenna could be placed on the rear window shelf and the speaker could be anywhere . The combinations would only be limited by the imagination of the installer . The wiring for the externals could be installed permanently in one or more places , cars , yachts , home so as only the device need be moved , or they could be easily removable for simple installation elsewhere .

CLAIMS

REMOTE SURVEILLANCE ALARM DEVICE

- 1) The device can be transported and used in or at any property as a pocket sized completely self contained device .
- 2) The device when triggered will automatically send a audio/video phone signal via a cellular network to a computer for recording of audio/visual data solving the problems encountered in convicting perpetrators due to evidence or the device itself being destroyed at the property its protecting .As well as storing audio/video data in its own memory .
- 3) The device can be triggered remotely using a security code for real time viewing using a video cellular or video land-line phone at anytime .Thus reassuring the user all is well .
- 4) The device has jacks/plugs so as to allow external cameras , speakers , triggers , external power or an antenna to be connected if so desired .
- 5) The device enables the user to see and converse with , or send a message to , a person who has triggered it in real time .



4

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Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.Q): H4F (AEE)

Int Cl (Ed.6): H04N 7/18

Other: Online: WPI, JAPIO, EPODOC

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X, Y	GB2335523A (ASCOT MANAGEMENT) See Pages 2 & 5	X:1,2,45 Y:3
X, Y	GB2305808A (MOTOROLA) See Page 10	X:1,45 Y:3
X, Y	GB2296156A (VISION-1) See Pages 5, 8-9 and Fig 1	X:1,45 Y:3
X, Y	GB2287152A (TOAD INNOVATIONS) See pages 2-5	X:1,2,45 Y:3
X, Y	US5893037 (REELE et al) See Cols 1 and 5	X:1,2,45 Y:3
Y	US5441047 (DAVID et al) See Col 14	3
X, Y	JP11-41669 (SHIN CATERPILLAR MITSUBISHI) See abstract	X:1,45 Y:3

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.